



Dongfeng Cummins Curve and Datasheet

Engine Type: ISDe210 30(Truck)

Curve Number: FR92156



Dongfeng Cummins Engine Co.,Ltd

Engine Performance Curve FR92156

EURO 3

Engine Model: ISDe210 30

Engine Configuration: D313003BX03

Advertised Power: 155 kW @ 2500 rpm
210 PS @ 2500 rpm

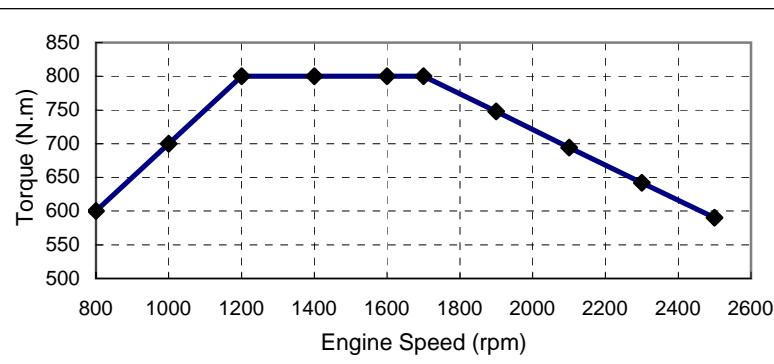
CPL: 1995

Peak Torque: 800 N.m @ 1400 rpm

Displacement: 6.7L
Cylinders: 6

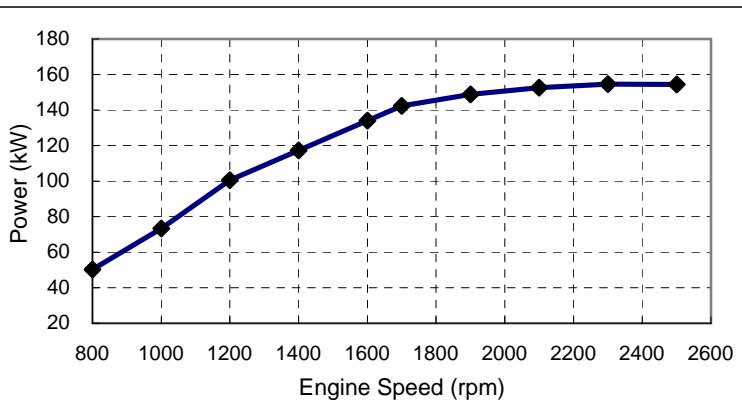
Bore: 107 mm
Stroke: 124 mm

Aspiration: Turbocharged & Charge Air Cooled
Fuel System: Bosch (HPCR)



Torque

rpm	N.m
800	600
1000	700
1200	800
1400	800
1600	800
1700	800
1900	748
2100	694
2300	642
2500	590



Power

rpm	kW
800	50
1000	73
1200	101
1400	117
1600	134
1700	142
1900	149
2100	153
2300	155
2500	154

Performance data shown is nominal, and is to 80/1269/EEC(as amended) conditions of 990mbar barometric pressure and 25 deg C air intake temperature.

All data are based on the engine operating with fuel system, water pump, lubricating oil pump and with inle restriction and exhaust restriction at or below datasheet limits. Not included are compressor,fan,alternator, optional equipment and driven components.



Dongfeng Cummins Engine Co.,Ltd

Engine Performance Curve FR92156

General

Certification: GB 17691-2005
Compression Ratio: 17.3:1

Air Intake System

Max. temperature rise between ambient air and turbo air inlet: °C 15
Max. intake restriction with dry type air cleaner, with clean filter kPa 2.9
Medium Duty: kPa 2.9
Heavy Duty: kPa 3.7
Max. intake restriction with dirty filter: kPa 6.2

Charge Air Cooling

Max. temperature rise between ambient air and intake manifold: °C 30
Max. ΔP between turbo out and manifold in: kPa 13.5
Intake pipe size normally acceptable: mm dia 65

Exhaust System

Max. back pressure imposed by complete exhaust system: kPa 10
Exhaust pipe size normally acceptable: mm dia 75

Cold Start Performance

Min. unaided cold start temperature: -12 °C @ 120 average rpm
Min. aided cold start temperature: -24 °C @ 120 average rpm

Performance Data

Idle Speed: rpm 600 - 800
Maximum no load governed speed: rpm 2850
Maximum over speed capability(15secs max.): rpm 4200
Maximum altitude for continuous operation: m 4700
Clutch engagement torque at 800rpm: N.m 610
When using exhaust brakes:
Exhaust pressure, at 2850rpm, at turbocharger outlet, must not exceed: kPa 413
Approximate engine retardation: kW TBD

Engine Speed RPM	Oil Pressure kPa	Air to Turbo m³/min	Air From Turbo		Exhaust Flow m³/min	Exhaust Temp °C	Fuel Consumption kg/hr	Coolant Flow l/min	Heat Rejection		Friction Power kW
			Flow kg/min	Pressure kPa					Coolant kW	Air kW	
2500	311	14.5		148		401	220	215	77.7	35.2	34.0
2300	313	14.1		156		468		187	72.4	29.3	28.0
1400	229	8.07		117		467		125	59.2	14.2	13.0

All values within $\pm 5\%$

Base engine data refer to Datasheet D313003BX03

All data subject to change without notice. Dongfeng Cummins Engine Co., Ltd